

SEQUENCE LISTING

<110> ARES TRADING S.A.
FAGAN, Richard Joseph
DAVIDS, Andrew Robert
PHELPS, Christopher Benjamin
POWER, Christine
BOSCHERT, Ursula
CHVATCHKO, Yolande

<120> CYTOKINE AGONIST MOLECULES

<130> C&R-116

<140> 10/579,113
<141> 2006-05-11

<150> PCT/GB2004/004772
<151> 2004-11-12

<150> GB0326393.6
<151> 2003-11-12

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<212> DNA
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gcacctgctgcg gcctgactat cgagaccgta tccgactctt tgaaaatggc tccctgcttc 240
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<212> PRT
<213> Homo sapiens

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Thr Val Gly Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser
 20 25 30

Ser Asp Arg Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val
 35 40 45

Thr Val Val Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro
50 55 60

Asp Tyr Arg Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu
65 70 75 80

Ser Asp Leu Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser
 85 90 95

Ile	Thr	Asp	Asp	Thr	Phe	Thr	Gly	Glu	Lys	Thr	Ile	Asn	Leu	Thr	Val
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Asp Val

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<213> Homo sapiens

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Leu Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys
 20 25 30

Pro Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser
 35 40 45

Arg Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val
 50 55 60

Leu Met Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile
 65 70 75 80

Ser Gln Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg
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<212> DNA

<213> Homo sapiens

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<212> PRT

<213> Homo sapiens

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<211> 74

<212> DNA

<213> Homo sapiens

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<211> 25

<212> PRT

<213> Homo sapiens

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Asn Asp Asp Arg Leu Lys Pro Glu Ala
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<211> 71
<212> DNA
<213> Homo sapiens

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tgaaggacaa g 71

<210> 12
<211> 23
<212> PRT
<213> Homo sapiens

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Leu Tyr Ile Leu Lys Asp Lys
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<210> 13
<211> 303
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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Thr Glu Pro Gly Pro Pro Gly Tyr Ser Val Ser Pro Ala Val Pro Gly
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Arg Ser Pro Gly Leu Pro Ile Arg Ser Ala Arg Arg Tyr Pro Arg Ser
35 40 45

Pro Ala Arg Ser Pro Ala Thr Gly Arg Thr His Ser Ser Pro Pro Arg
50 55 60

Ala Pro Ser Ser Pro Gly Arg Ser Arg Ser Ala Ser Arg Thr Leu Arg
 65 70 75 80

Thr Ala Gly Val His Ile Ile Arg Glu Gln Asp Glu Ala Gly Pro Val
 85 90 95

Glu Ile Ser Ala
 100

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 <212> DNA
 <213> Homo sapiens

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<210> 16
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 <212> PRT
 <213> Homo sapiens

<400> 16
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Leu Ala Pro Phe Val Tyr Leu Leu Ile Gln Thr Asp Pro Leu Glu
 20 25 30

Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
 35 40 45

Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg
 50 55 60

Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
 65 70 75 80
 Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg
 85 90 95
 Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Ser Asp Leu
 100 105 110
 Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
 115 120 125
 Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro
 130 135 140
 Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu
 145 150 155 160
 Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro
 165 170 175
 Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg
 180 185 190
 Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu
 195 200 205
 Met Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser
 210 215 220
 Gln Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser
 225 230 235 240
 Leu Tyr Ile Ile Leu Ser Thr Gly Gly Ile Phe Leu Leu Val Thr Leu
 245 250 255
 Val Thr Val Cys Ala Cys Trp Lys Pro Ser Lys Arg Lys Gln Lys Lys
 260 265 270
 Leu Glu Lys Gln Asn Ser Leu Glu Tyr Met Asp Gln Asn Asp Asp Arg
 275 280 285
 Leu Lys Pro Glu Ala Asp Thr Leu Pro Arg Ser Gly Glu Gln Glu Arg
 290 295 300
 Lys Asn Pro Met Ala Leu Tyr Ile Leu Lys Asp Lys Asp Ser Pro Glu
 305 310 315 320
 Thr Glu Glu Asn Pro Ala Pro Glu Pro Arg Ser Ala Thr Glu Pro Gly
 325 330 335
 Pro Pro Gly Tyr Ser Val Ser Pro Ala Val Pro Gly Arg Ser Pro Gly
 340 345 350

Leu Pro Ile Arg Ser Ala Arg Arg Tyr Pro Arg Ser Pro Ala Arg Ser
 355 360 365

Pro Ala Thr Gly Arg Thr His Ser Ser Pro Pro Arg Ala Pro Ser Ser
 370 375 380

Pro Gly Arg Ser Arg Ser Ala Ser Arg Thr Leu Arg Thr Ala Gly Val
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His Ile Ile Arg Glu Gln Asp Glu Ala Gly Pro Val Glu Ile Ser Ala
 405 410 415

<210> 17

<211> 1257

<212> DNA

<213> Mus musculus

<400> 17

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cagtctatag	gcacagaggt	cattggact	ctgcggcctg	actatcgaga	ccgtatccgg	300
ctcttgaaa	atggctcctt	gtttctcagc	gacctgcagc	tggcggatga	ggaaacctat	360
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<210> 18

<211> 418

<212> PRT

<213> Mus musculus

<400> 18

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Leu Ser Pro Phe Val Tyr Leu Leu Ile Gln Pro Val Pro Leu Glu
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Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
 35 40 45

Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Lys
 50 55 60

Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
 65 70 75 80

Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg
 85 90 95

Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Ser Asp Leu
 100 105 110

Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
 115 120 125

Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro
 130 135 140

Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu
 145 150 155 160

Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro
 165 170 175

Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg
 180 185 190

Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu
 195 200 205

Met Glu Asp Asp Asp Leu Tyr Ser Cys Val Val Glu Asn Pro Ile Ser
 210 215 220

Gln Val Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser
 225 230 235 240

Leu Tyr Ile Ile Leu Ser Thr Gly Gly Ile Phe Leu Leu Val Thr Leu
 245 250 255

Val Thr Val Cys Ala Cys Trp Lys Pro Ser Lys Lys Ser Arg Lys Lys
 260 265 270

Arg Lys Leu Glu Lys Gln Asn Ser Leu Glu Tyr Met Asp Gln Asn Asp
 275 280 285

Asp Arg Leu Lys Ser Glu Ala Asp Thr Leu Pro Arg Ser Gly Glu Gln
 290 295 300

Glu Arg Lys Asn Pro Met Ala Leu Tyr Ile Leu Lys Asp Lys Asp Ser
 305 310 315 320

Ser Glu Pro Asp Glu Asn Pro Ala Thr Glu Pro Arg Ser Thr Thr Glu
 325 330 335

Pro Gly Pro Pro Gly Tyr Ser Val Ser Pro Pro Val Pro Gly Arg Ser
 340 345 350

Pro Gly Leu Pro Ile Arg Ser Ala Arg Arg Tyr Pro Arg Ser Pro Ala
 355 360 365

Arg Ser Pro Ala Thr Gly Arg Thr His Thr Ser Pro Pro Arg Ala Pro
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Ser Ser Pro Gly Arg Ser Arg Ser Ser Ser Arg Ser Leu Arg Thr Ala
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Ser Ala

<210> 19
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<212> DNA
<213> Homo sapiens

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<210> 20
<211> 240
<212> PRT
<213> Homo sapiens

<400> 20
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Leu Ala Pro Phe Val Tyr Leu Leu Ile Gln Thr Asp Pro Leu Glu
20 25 30

Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
35 40 45

Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg
50 55 60

Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
65 70 75 80

Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg
85 90 95

Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Ser Asp Leu
100 105 110

Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
115 120 125

Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro
130 135 140

Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu
145 150 155 160

Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro
165 170 175

Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg
180 185 190

Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu
195 200 205

Met Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser
210 215 220

Gln Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser
225 230 235 240

<210> 21
<211> 621
<212> DNA
<213> Homo sapiens

<400> 21
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<210> 22
<211> 207
<212> PRT

<213> Homo sapiens

<400> 22
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 20 25 30

Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln
 35 40 45

Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp
 50 55 60

Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Ser Asp Leu Gln
 65 70 75 80

Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp
 85 90 95

Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro Ile
 100 105 110

Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu Ser
 115 120 125

Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro Ser
 130 135 140

Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg Met
 145 150 155 160

Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu Met
 165 170 175

Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser Gln
 180 185 190

Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser
 195 200 205

<210> 23
 <211> 328
 <212> DNA
 <213> Homo sapiens

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<210> 24
<211> 110
<212> PRT
<213> Homo sapiens

<400> 24
Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly Lys
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20 25 30

Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln
35 40 45

Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp
50 55 60

Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Ser Asp Leu Gln
65 70 75 80

Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp
85 90 95

Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val
100 105 110

<210> 25
<211> 1152
<212> DNA
<213> Homo sapiens

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<210> 26

<211> 383
<212> PRT
<213> Homo sapiens

<400> 26
Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly Lys
1 5 10 15
Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Asp Arg Pro
20 25 30
Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln
35 40 45
Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp
50 55 60
Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Ser Asp Leu Gln
65 70 75 80
Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp
85 90 95
Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro Ile
100 105 110
Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu Ser
115 120 125
Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro Ser
130 135 140
Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg Met
145 150 155 160
Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu Met
165 170 175
Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser Gln
180 185 190
Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser Leu
195 200 205
Tyr Ile Ile Leu Ser Thr Gly Gly Ile Phe Leu Leu Val Thr Leu Val
210 215 220
Thr Val Cys Ala Cys Trp Lys Pro Ser Lys Arg Lys Gln Lys Lys Leu
225 230 235 240
Glu Lys Gln Asn Ser Leu Glu Tyr Met Asp Gln Asn Asp Asp Arg Leu
245 250 255
Lys Pro Glu Ala Asp Thr Leu Pro Arg Ser Gly Glu Gln Glu Arg Lys
260 265 270

Asn Pro Met Ala Leu Tyr Ile Leu Lys Asp Lys Asp Ser Pro Glu Thr
 275 280 285
 Glu Glu Asn Pro Ala Pro Glu Pro Arg Ser Ala Thr Glu Pro Gly Pro
 290 295 300
 Pro Gly Tyr Ser Val Ser Pro Ala Val Pro Gly Arg Ser Pro Gly Leu
 305 310 315 320
 Pro Ile Arg Ser Ala Arg Arg Tyr Pro Arg Ser Pro Ala Arg Ser Pro
 325 330 335
 Ala Thr Gly Arg Thr His Ser Ser Pro Pro Arg Ala Pro Ser Ser Pro
 340 345 350
 Gly Arg Ser Arg Ser Ala Ser Arg Thr Leu Arg Thr Ala Gly Val His
 355 360 365
 Ile Ile Arg Glu Gln Asp Glu Ala Gly Pro Val Glu Ile Ser Ala
 370 375 380
 <210> 27
 <211> 256
 <212> PRT
 <213> Homo sapiens
 <400> 27
 Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
 1 5 10 15
 Leu Ala Pro Phe Val Tyr Leu Leu Ile Gln Thr Asp Pro Leu Glu
 20 25 30
 Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
 35 40 45
 Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg
 50 55 60
 Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
 65 70 75 80
 Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg
 85 90 95
 Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu
 100 105 110
 Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
 115 120 125
 Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro
 130 135 140

Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu
 145 150 155 160

Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro
 165 170 175

Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg
 180 185 190

Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu
 195 200 205

Met Glu Asp Asp Asp Leu Asp Ser Cys Val Val Glu Asn Pro Ile Asn
 210 215 220

Gln Gly Arg Thr Leu Pro Cys Lys Ile Thr Val Tyr Lys Lys Ser Ser
 225 230 235 240

Leu Ser Ser Ile Trp Leu Gln Glu Ala Phe Ser Ser Leu Gly Pro Trp
 245 250 255

<210> 28

<211> 256

<212> PRT

<213> Homo sapiens

<400> 28

Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
 1 5 10 15

Leu Ala Pro Phe Val Tyr Leu Leu Ile Gln Thr Asp Pro Leu Glu
 20 25 30

Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
 35 40 45

Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg
 50 55 60

Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
 65 70 75 80

Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg
 85 90 95

Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Ser Asp Leu
 100 105 110

Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
 115 120 125

Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro
 130 135 140

Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu
 145 150 155 160

Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro
 165 170 175

Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg
 180 185 190

Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu
 195 200 205

Met Glu Asp Asp Asp Leu Asp Ser Cys Val Val Glu Asn Pro Ile Asn
 210 215 220

Gln Gly Arg Thr Leu Pro Cys Lys Ile Thr Val Tyr Lys Lys Ser Ser
 225 230 235 240

Phe Tyr Ile Ile Cys Leu Lys Glu Ala Ser Ser Ser Phe Gly Pro Trp
 245 250 255

<210> 29

<211> 213

<212> PRT

<213> Homo sapiens

<400> 29

Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly Lys
 1 5 10 15

Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg Pro
 20 25 30

Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln
 35 40 45

Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp
 50 55 60

Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu Gln
 65 70 75 80

Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp
 85 90 95

Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro Ile
 100 105 110

Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu Ser
 115 120 125

Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro Ser
 130 135 140

Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg Met
 145 150 155 160

Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu Met
 165 170 175

Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser Gln
 180 185 190

Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser His
 195 200 205

His His His His His
 210

<210> 30
 <211> 439
 <212> PRT
 <213> Homo sapiens

<400> 30
 Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly Lys
 1 5 10 15

Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg Pro
 20 25 30

Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln
 35 40 45

Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp
 50 55 60

Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Ser Asp Leu Gln
 65 70 75 80

Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp
 85 90 95

Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro Ile
 100 105 110

Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu Ser
 115 120 125

Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro Ser
 130 135 140

Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg Met
 145 150 155 160

Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu Met
 165 170 175

Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser Gln

180

185

190

Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser Glu
 195 200 205

Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
 210 215 220

Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
 225 230 235 240

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 245 250 255

Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
 260 265 270

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
 275 280 285

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 290 295 300

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
 305 310 315 320

Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 325 330 335

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys
 340 345 350

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 355 360 365

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
 370 375 380

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
 385 390 395 400

Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
 405 410 415

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
 420 425 430

Leu Ser Leu Ser Pro Gly Lys
 435

<210> 31

<211> 186

<212> PRT

<213> Homo sapiens

<400> 31
 Val Arg Leu Ile His Gly Thr Val Gly Lys Ser Ala Leu Leu Ser Val
 1 5 10 15
 Gln Tyr Ser Ser Thr Ser Asp Arg Pro Val Val Lys Trp Gln Leu
 20 25 30
 Lys Arg Asp Lys Pro Val Thr Val Val Gln Ser Ile Gly Thr Glu Val
 35 40 45
 Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp Arg Ile Arg Leu Phe Glu
 50 55 60
 Asn Gly Ser Leu Leu Leu Ser Asp Leu Gln Leu Ala Asp Glu Gly Thr
 65 70 75 80
 Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp Thr Phe Thr Gly Glu Lys
 85 90 95
 Thr Ile Asn Leu Thr Val Asp Val Pro Ile Ser Arg Pro Gln Val Leu
 100 105 110
 Val Ala Ser Thr Thr Val Leu Glu Leu Ser Glu Ala Phe Thr Leu Asn
 115 120 125
 Cys Ser His Glu Asn Gly Thr Lys Pro Ser Tyr Thr Trp Leu Lys Asp
 130 135 140
 Gly Lys Pro Leu Leu Asn Asp Ser Arg Met Leu Leu Ser Pro Asp Gln
 145 150 155 160
 Lys Val Leu Thr Ile Thr Arg Val Leu Met Glu Asp Asp Asp Leu Tyr
 165 170 175
 Ser Cys Met Val Glu Asn Pro Ile Ser Gln
 180 185